

Listing of Claims:

Please amend the claims as indicated in this listing of claims:

Claims 1-2 (previously cancelled)

Claim 3 (previously amended) The display device of claim 21 wherein the lighted array is comprised of members selected from the group consisting of obscured light emitting diodes and pigmented light emitting diodes.

Claims 4-14 (previously cancelled)

Claim 15 (previously amended) An apparatus for producing visual displays comprising:

at least one lighted array comprised of at least one light emitting element and defining a style of predetermined graphics shape or alphanumeric characters;

a double-throw inertia reversal sensor for sensing reversals in the direction of inertia; and

a controller in communication with said array and programmed to count a number of adjacent inertia reversals detected by said inertia reversal sensor and to modify the display data delivered in a columnar piecewise fashion to said lighted array; whereby a series of changing styles of graphics or alphanumeric characters appear and hang in

mid air when the device is moved through space.

Claim 16 (currently amended) A kinetic apparatus for producing visual displays

based on the persistence of vision effect of human vision, comprising:

 a lighted array of light emitting elements;

 a controller coupled to the elements of the lighted array; said controller being programmed to deliver display data in a piecewise fashion to said lighted array; and

 a multi-degree sensor for detecting angular motion of said lighted array;

 said controller being programmed to process changes in inertia detected by said multi-degree sensor;

wherein said apparatus is mounted for pivotal movement about a central point, such that the lighted array rotates at a variable speed around the circumference of a circle, thereby producing a visual display of text or graphics which appears stable or precedes or recedes around said central pivot point.

Claim 17 CANCELLED

Claim 18 (previously cancelled)

Claim 19 (previously amended) A device for producing visual displays based on the persistence of vision effect of human vision, comprising:

a lighted array of light emitting elements;
a controller to deliver display data in a columnar piecewise fashion to the lighted array;
wherein the lighted array is substantially fixed in position and relies on an observer to provide the kinetic motion required to produce a persistence of vision image by scanning the observer's eyes past the lighted array;
and wherein the lighted array is slanted, arched, angled, or pointed, such that the eyes of the observer are thereby guided to scan the array in the direction pointed to by the array, so that the observer will see a persistence of vision image which is correctly oriented when the observer's eyes scan in the direction indicated.

Claim 20 (previously amended) The apparatus of claim 19 wherein the array is integrated into articles of clothing, notebooks, and other items; whereby a visual display is produced when the viewer's eyes scan across the lighted array.

Claim 21 (previously amended) An apparatus for producing visual displays based on the persistence of vision effect of human vision, comprising:
a lighted array of light emitting elements;
a controller to deliver display data in a columnar piecewise fashion to the lighted array;
an inertia reversal sensor to detect the completion of a first half-cycle swing of the lighted array;

from a first position to a second position and to detect the completion of a return half-cycle swing of the lighted array from the second position back to the first position; wherein the controller uses only the measure of the time interval between the completion of the first half-cycle swing and the completion of the return half-cycle swing to determine the timing of lighting sequence of the light emitting elements of the array during a display half-cycle swing immediately following the return half-cycle swing so that the image displayed by the lighted array is synchronized with the movement of the lighted array.

Claim 22 (previously amended) The apparatus of claim 21 wherein the display data is stored in a shorthand format; such that spaces are removed from the stored data but are implicitly indicated by changing the case of the stored character; thereby enabling the storage of substantially more display data while still being able to display spaces in proper places.

Claim 23-28 (previously canceled)

Claim 29 (previously amended) The apparatus of claim 21 wherein the controller randomly selects programmed data for entertaining display.

Claim 30 (previously cancelled)